

DETAILED ACTION

1. Claims 8, 11-13 are pending in this application.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ellen Marcie Emas (Reg. 32,131) on September 22, 2010.

The claims have been amended as follows:

Claims 1-7 (Canceled)

8. (Currently Amended) A photography apparatus that manages data recorded on a disc-shaped record medium, comprising:

a memory;

information obtainment means for obtaining reproduction information necessary to reproduce the data when the data are recorded on the disc-shaped record medium by the photography apparatus, said data being low resolution video data and video and audio data for each clip;

generation means for generating a plurality of clip management files with which data that compose each clip that is a predetermined structural unit of data are managed, each clip management file describing for one clip (1) the obtained reproduction information of data that compose the clip and (2) an identifier that uniquely identifies data that compose the clip;

registration means for updating management information for all clips, composed of (a) the obtained reproduction information of data that compose each clip, (b) the unique identifier of data that compose each clip, and (c) information that represents a recorded position of data that compose each clip, to an index management file with which all clips and edit lists recorded on the disc-shaped record medium are totally managed; and

successive reproduction means for successively reproducing data that compose all the clips recorded on the disc-shaped record medium in an order of recordation

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according to the clip management files or the index management file,

wherein when the disc-shaped record medium is loaded into the photography apparatus, the index management file is read from the disc-shaped record medium and stored to [[a]]the memory of the photography apparatus and thereafter when a clip recorded on the disc-shaped record medium is designated to be reproduced by a reproduction command of the photography apparatus, the corresponding clip management file for the designated clip is read from the disc-shaped record medium and stored to the memory~~[[.]]~~.

wherein the registration means registers the management information of the clip to the last end of the index management file.

9. (Cancelled).

10. (Cancelled).

11. (Currently Amended) A method of managing data recorded on a disc-shaped record medium by a photography apparatus, comprising the steps of:

obtaining reproduction information necessary to reproduce the data when the data are recorded on the disc-shaped record medium by the photography apparatus,

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said data being low resolution video data and video and audio data for each clip;

generating a plurality of clip management files with which data that compose each clip that is a predetermined structural unit of data are managed, each clip management file describing for one clip (1) the obtained reproduction information of data that compose the clip and (2) an identifier that uniquely identifies data that compose the clip;

updating management information for all clips, composed of (a) the obtained reproduction information of data that compose each clip, (b) the unique identifier of data that compose each clip, and (c) information that represents a recorded position of data that compose each clip, to an index management file with which all clips and edit lists recorded on the disc-shaped record medium are totally managed; and

successively reproducing data that compose all the clips recorded on the disc-shaped record medium in an order of recordation according to the clip management files or the index management file,

wherein when the disc-shaped record medium is loaded into the photography apparatus, the index management file is read from the disc-shaped record medium and stored to a memory of the photography apparatus and thereafter when a clip recorded on the disc-shaped record medium is designated to be reproduced by a reproduction

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command of the photography apparatus, the corresponding clip management file for the designed clip is read from the disc-shaped record medium and stored to the memory[[.]].

wherein the management information of the clip is registered to the last end of the index management file.

12. (Currently Amended) A program record medium on which a computer readable program is recorded, the program causing a computer of a photography apparatus to perform an information process that manages data recorded on a disc-shaped record medium, the program comprising the steps of:

obtaining reproduction information necessary to reproduce the data when the data are recorded on the disc-shaped record medium by the photography apparatus, said data being low resolution video data and video and audio data for each clip;

generating a plurality of clip management files with which data that compose each clip that is a predetermined structural unit of data are managed, each clip management file describing for one clip (1) the obtained reproduction information of data that compose the clip and (2) an identifier that uniquely identifies data that compose the clip;

updating management information for all clips composed of (a) the obtained reproduction information of data that compose each clip, (b) the unique identifier of data that compose each clip, and (c) information that represents a recorded position of data that compose each clip, to an index management file with which all clips and edit lists recorded on the disc-shaped record medium are totally managed; and

successively reproducing data that compose all the clips recorded on the disc-shaped record medium in an order of recordation according to the clip management files or the index management file,

wherein when the disc-shaped record medium is loaded into the photography apparatus, the index management file is read from the disc-shaped record medium and stored to a memory of the photography apparatus and thereafter when a clip recorded on the disc-shaped record medium is designated to be reproduced by a reproduction command of the photography apparatus, the corresponding clip management file for the designated clip is read from the disc-shaped record medium and stored to the memory[[]].

wherein the management information of the clip is registered to the last end of the index management file.

13. (Currently Amended) A computer implemented program that causes a computer of a

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photography apparatus to perform an information process that manages data recorded on a disc- shaped record medium, the program comprising the steps of:

obtaining reproduction information necessary to reproduce the data when the data are recorded on the disc-shaped record medium by the photography apparatus, said data being low resolution video data and audio and video data for each clip;

generating a plurality of clip management files with which data that compose each clip that is a predetermined structural unit of data are managed, each clip management file describing for one clip (1) the obtained reproduction information of data that compose the clip and (2) an identifier that uniquely identifies data that compose the clip;

updating management information for all clips, composed of (a) the obtained reproduction information of data that compose each clip, (b) the unique identifier of data that compose each clip, and (c) information that represents a recorded position of data that compose each clip, to an index management file with which all clips and edit lists recorded on the disc- shaped record medium are totally managed; and

successively reproducing data that compose all the clips recorded on the disc-shaped record medium in an order of recordation according to the clip management

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files or the index management file,

wherein when the disc-shaped record medium is loaded into the photography apparatus, the index management file is read from the disc-shaped record medium and stored to a memory of the photography apparatus and thereafter when a clip recorded on the disc-shaped record medium is designated to be reproduced by a reproduction command of the photography apparatus, the corresponding clip management file for the designated clip is read from the disc-shaped record medium and stored to the memory[[]].

wherein the management information of the clip is registered to the last end of the index management file.

Allowable Subject matter

3. Claims 8, 11-13 are allowed.

The examiner deems claims 8, 11-13 as novel when viewed as a whole for the limitations of information process apparatus and method, program record medium, and program.

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The closest prior art of record, David discloses, information process apparatus that manages data recorded on a disc shaped record medium (abstract), comprising: information obtainment means for obtaining reproduction information necessary to reproduce the data when the data are recorded, said data being low resolution data and video and audio data for each clip ([0003], records audio/video; [0236], metadata which includes clips may contain resolution information); generation means for generating a plurality of management files with which data that compose each clip that is a predetermined structural unit of data are managed ([0049]-[0050]), the first management file describing for one clip (1) the reproduction information of data that compose the clip ([0091]; [0110], clips are recorded with identifiers; [0115]) and (2) an identifier that uniquely identifies data that compose the clip ([0091], unique identifiers identify each clip; [0110]);

However, the prior art of record fails to anticipate or render obvious the recited feature of the limitations cited above added with registration means for updating management information for all clips, composed of (a) the obtained reproduction information of data that compose each clip, (b) the unique identifier of data that compose each clip, and (c) information that represents a recorded position of data that compose each clip, to an index management file with which all clips and edit lists recorded on the disc-shaped record medium are totally managed; and successive reproduction means for successively reproducing data that compose all the clips recorded on the disc-shaped record medium in an order of recordation according to the

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clip management files or the index management file, wherein when the disc-shaped record medium is loaded into the photography apparatus, the index management file is read from the disc-shaped record medium and stored to the memory of the photography apparatus and thereafter when a clip recorded on the disc-shaped record medium is designated to be reproduced by a reproduction command of the photography apparatus, the corresponding clip management file for the designated clip is read from the disc-shaped record medium and stored to the memory, wherein the registration means registers the management information of the clip to the last end of the index management file.

These features, together with the other limitations of the independent claims are novel and non-obvious over the prior art of record. The dependent claims being definite, enabled by the specification, and further limiting to the independent claims, are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FAZLUL QUADER whose telephone number is (571)270-1905. The examiner can normally be reached on M-F 8-5 Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on 571-272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Charles Rones/

Supervisory Patent Examiner, Art Unit 2164